

CONTENTS

List of Figures

List of Plates

List of Tables

Chapter	Page No.
1 INTRODUCTION	
1.1 Systematic Account	2
1.2 Habit and Habitats	5
1.3 General Morphology	5
1.4 Reproduction and Life cycle	9
1.4.1 Parthenogenetic reproduction	10
1.4.2 Sexual reproduction	11
1.5 Food and Feeding	12
1.6 Importance of Cladocera	14
1.7 Relevance of present Investigation	16
2 REVIEW OF LITERATURE	
A General Review of Cladocera	19
Review of Indian Cladocera	25
Review of Biological studies	27
3 MATERIALS AND METHODS	
3.1 Field Collection	37
3.1.1 Collection Sites	37
3.1.2 Collection Methods	40
3.1.3 Preservation and Storage	41
3.1.4 Identification	42
3.2 Laboratory Culture	42
3.2.1 Preparation of Algal culture	42
3.2.2 General rearing methods	44
3.2.3 Rearing methods for Life cycle studies	49
3.3 Studies on individual species	51
3.3.1 Morphology	51
3.3.2 Reproduction and Life cycle	51
3.3.3 Growth	54
3.3.4 Embryonic Development	55

Chapter	Page No.
3.3.5 Life Span and Survivorship	55
4 ORDER CTENOPODA	
FAMILY SIDIDAE Baird, 1850	
4.1 <i>Pseudosida bidentata</i> Herrick, 1884 var. <i>szalayii</i> (Daday, 1898)	57
4.2 <i>Latonopsis australis</i> Sars, 1888	66
4.3 <i>Diaphanosoma sarsi</i> Richard, 1894	73
5 ORDER ANOMOPODA	
FAMILY DAPHNIIDAE Straus, 1820	
5.1 <i>Ceriodaphnia cornuta</i> Sars, 1885	84
5.2 <i>Scapholeberis kingi</i> Sars, 1903	92
5.3 <i>Simocephalus serrulatus</i> (Koch, 1841)	100
FAMILY MOINIDAE Goulden, 1968	
5.4 <i>Moina brachiata</i> (Jurine, 1820)	113
5.5 <i>Moinodaphnia macleayi</i> (King, 1853)	119
FAMILY MACROTHRICIDAE Norman and Brady, 1867	
5.6 <i>Ilyocryptus spinifer</i> Herrick, 1882	131
5.7 <i>Macrothrix triserialis</i> (Brady, 1886)	139
FAMILY CHYDORIDAE Stebbing, 1902	
5.8 <i>Alona pulchella</i> King, 1853	151
5.9 <i>Oxyurella singalensis</i> (Daday, 1898)	156
6 DISCUSSION	166
REFERENCES	180